

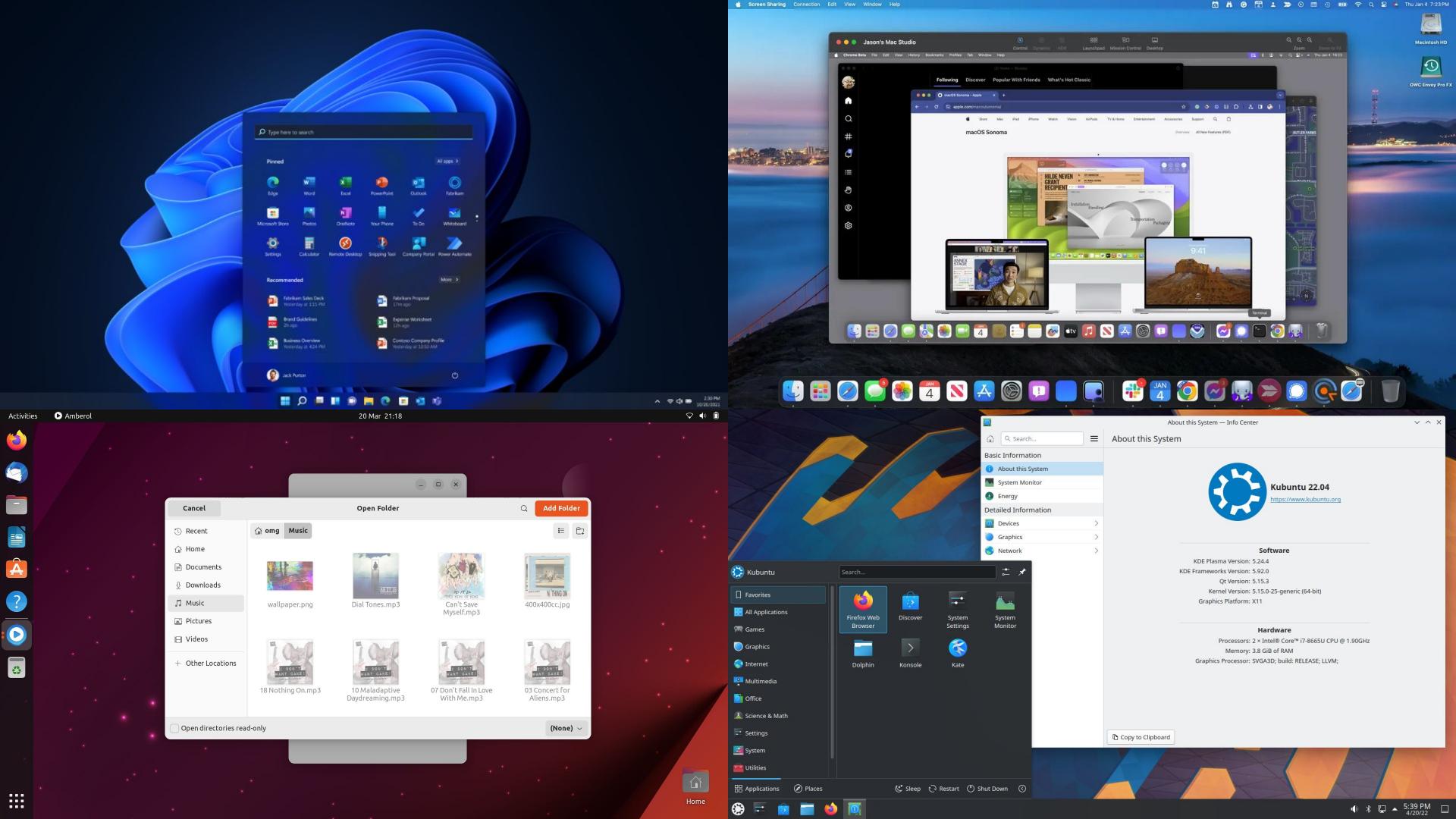
# Introduction to Linux

Meeting 1: Theoretical introduction

Speaker: Iulian Rotaru



# What is Linux?



# Why would we care?

## Programmers

- Servers
- Extensibility
- Tooling

## Everyone:

- Resource usage
- Privacy
- It's not Windows

What do we mean by “Operating System”?

Kernel

Essential  
Programs

GUI

Bundled  
Apps

# Main differences: Modularity

Kernel

Essential  
Programs

GUI

Bundled  
Apps

Windows, MacOS

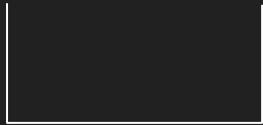
# Main differences: Modularity

Kernel

Essential  
Programs

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Bundled  
Apps



Linux

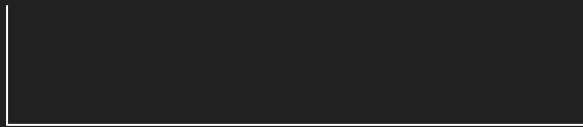
# Main differences: Modularity

Kernel

Essential  
Programs

GUI

Bundled  
Apps



GNU/Linux



# Distros



# Main differences: Modularity

Kernel

Essential  
Programs

GUI

Bundled  
Apps

GNU/Linux Distro

# Main differences: Open Source

- Inspectable code
- Community driven
- Cannot disappear

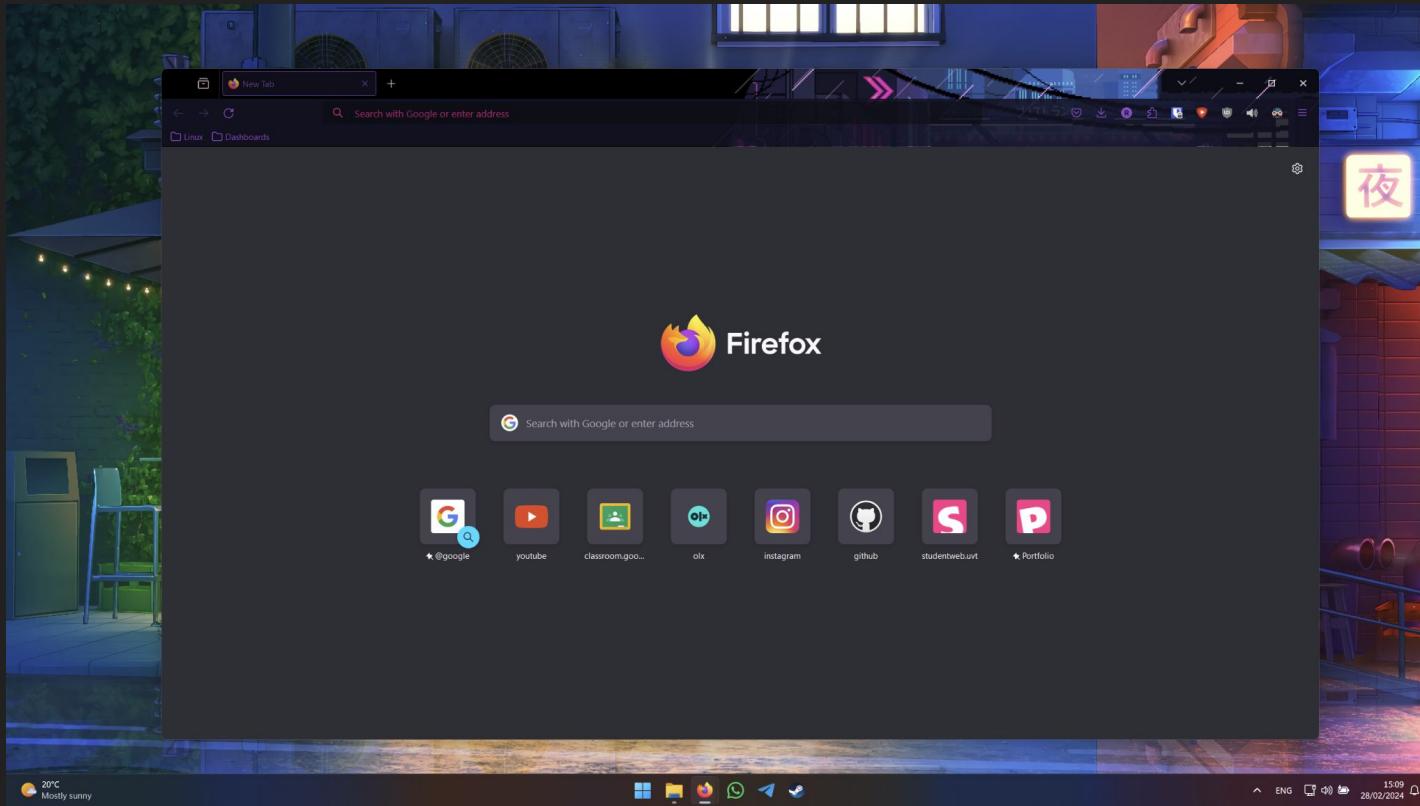
Main differences: Software

Software selection

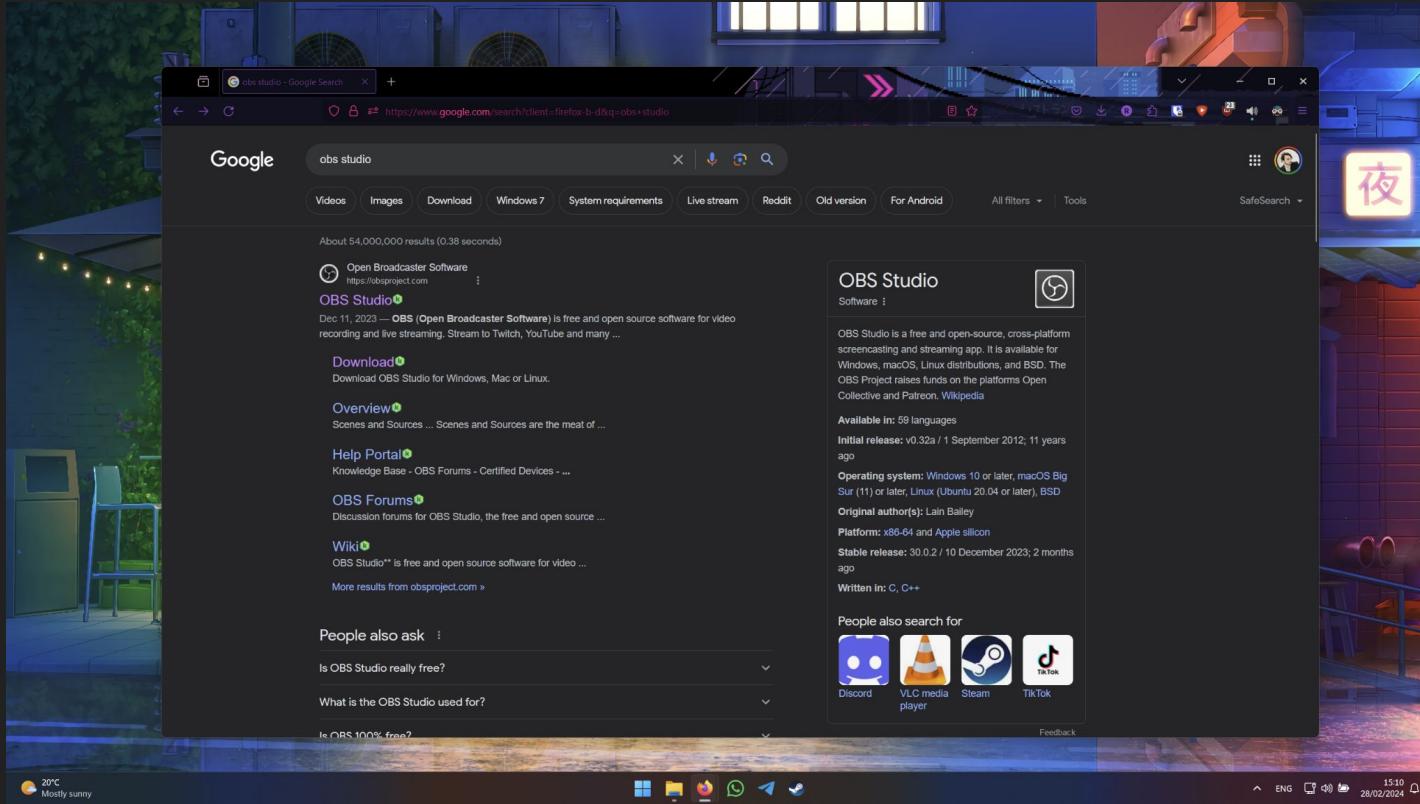
Main differences: Software

Software installation

# Software installation: Windows



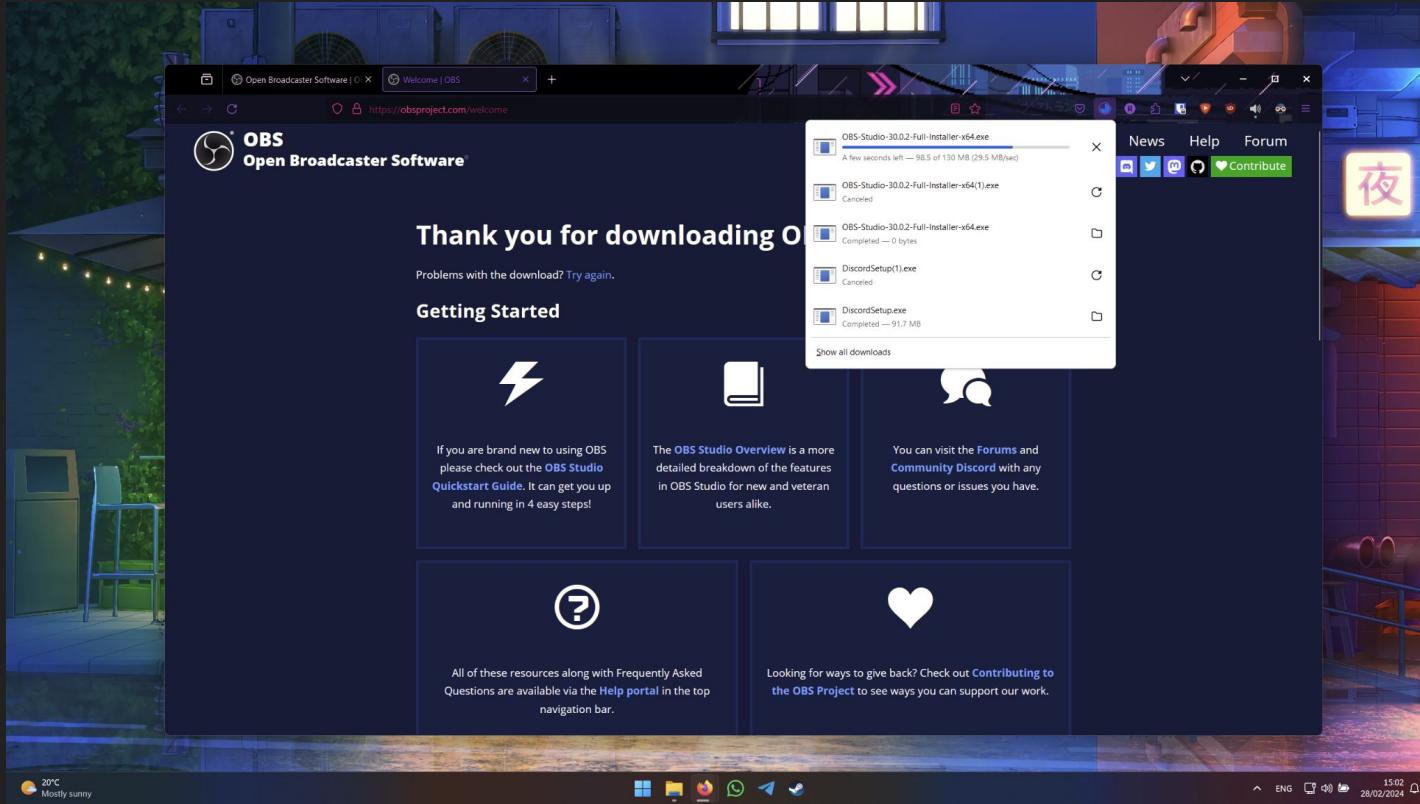
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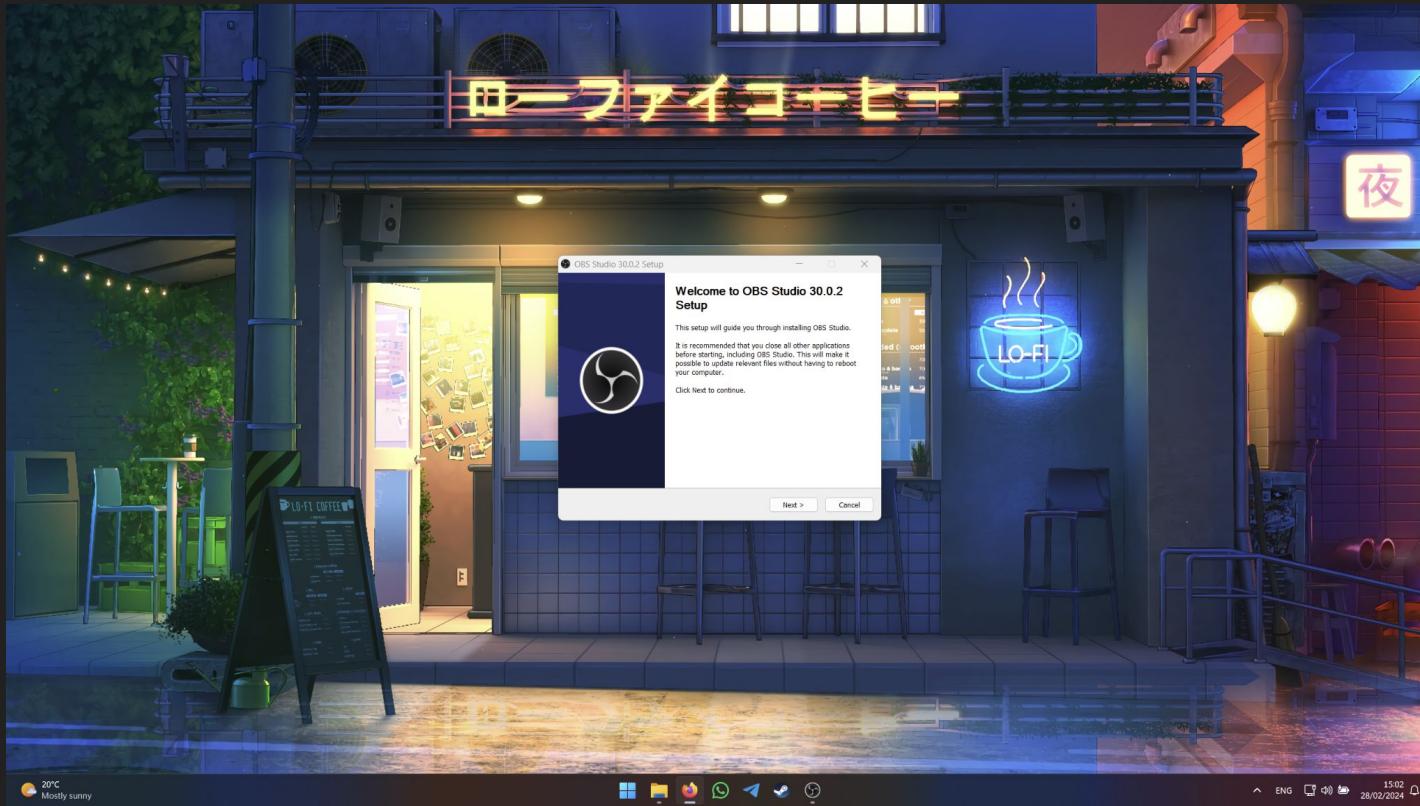
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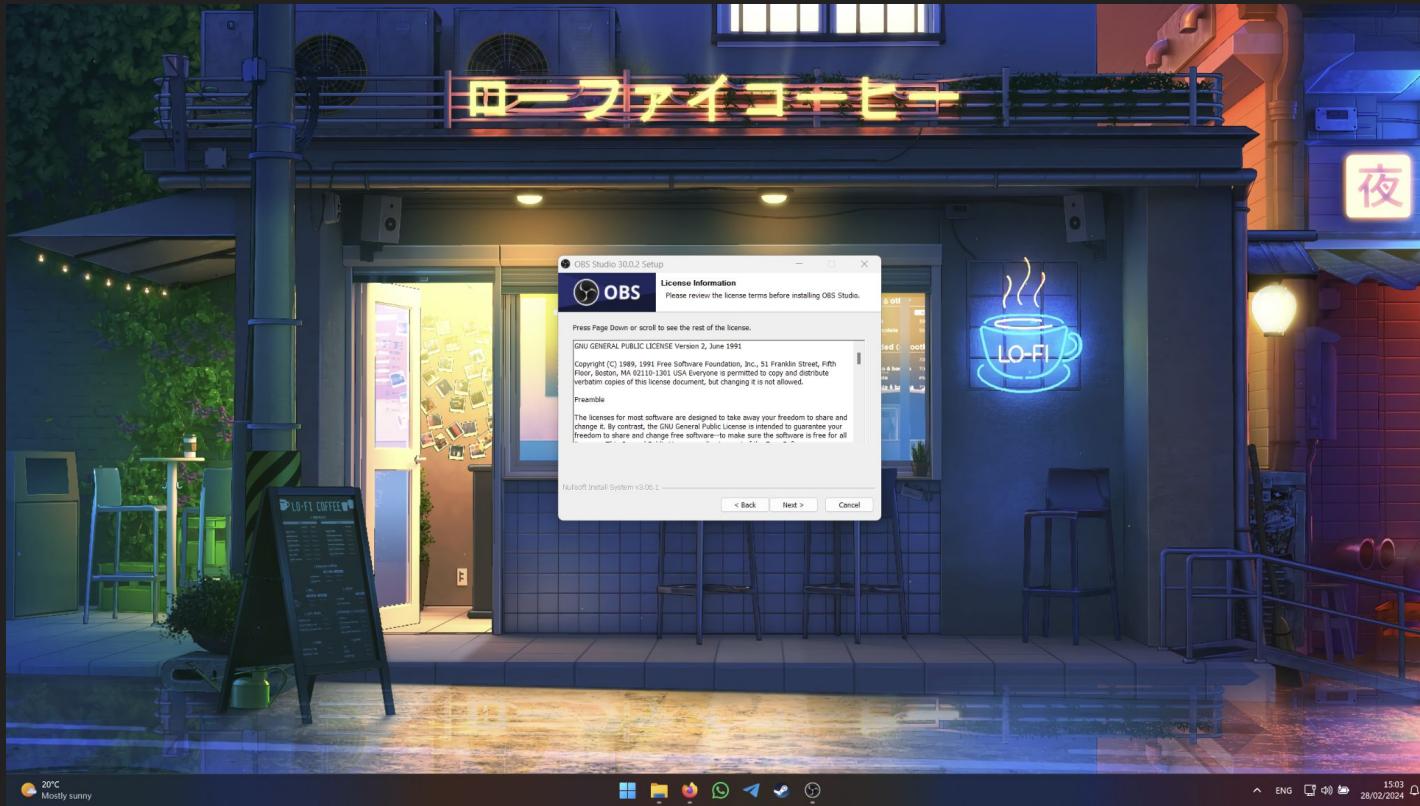
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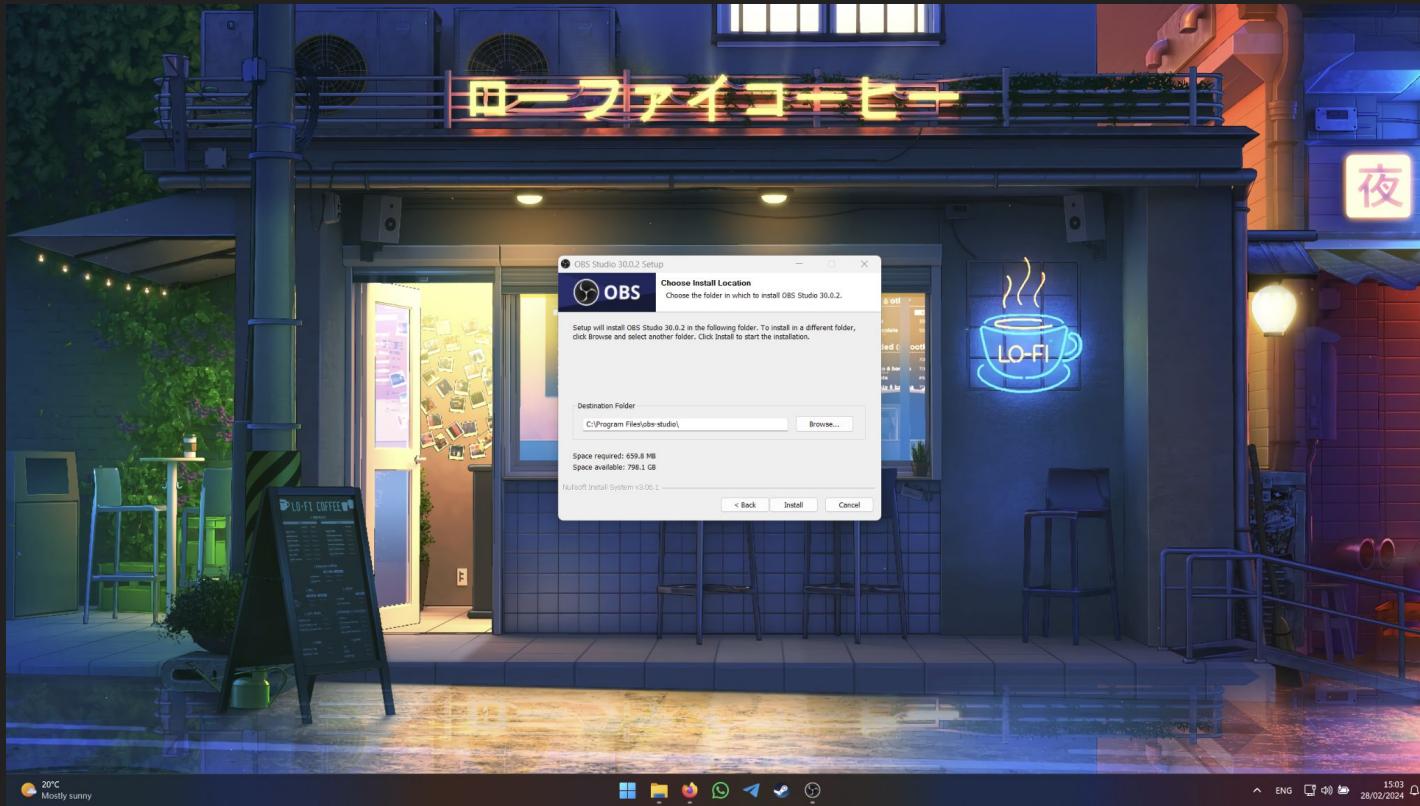
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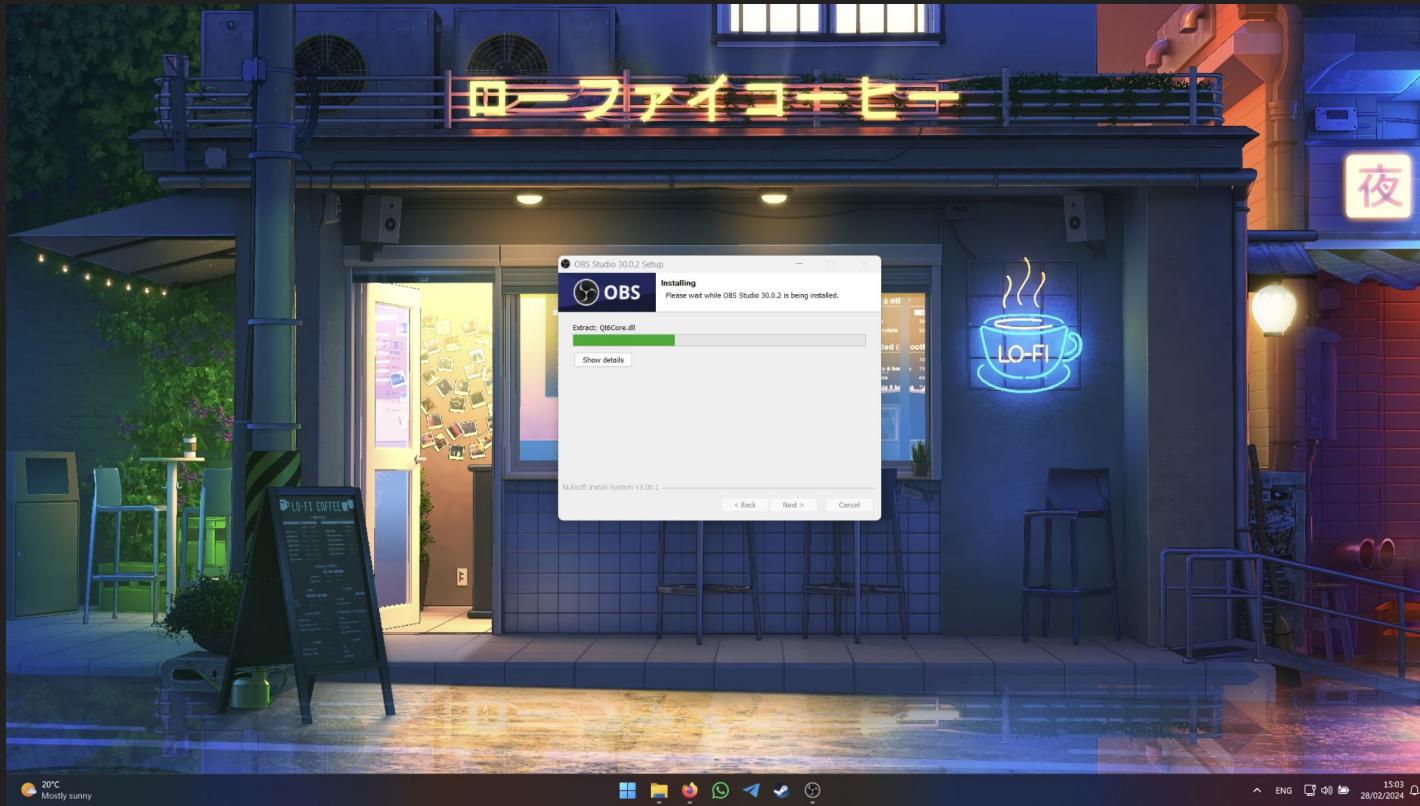
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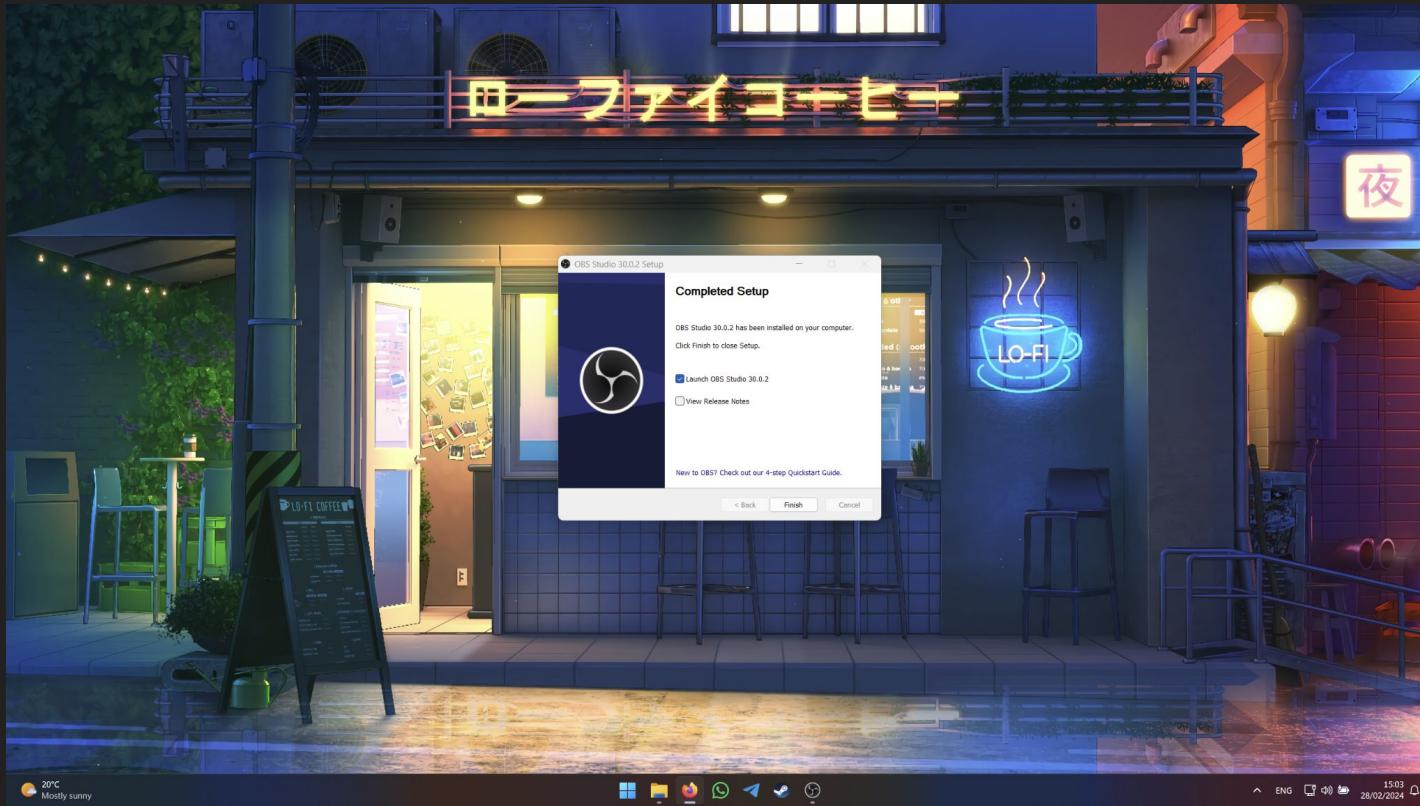
# Software installation: Windows



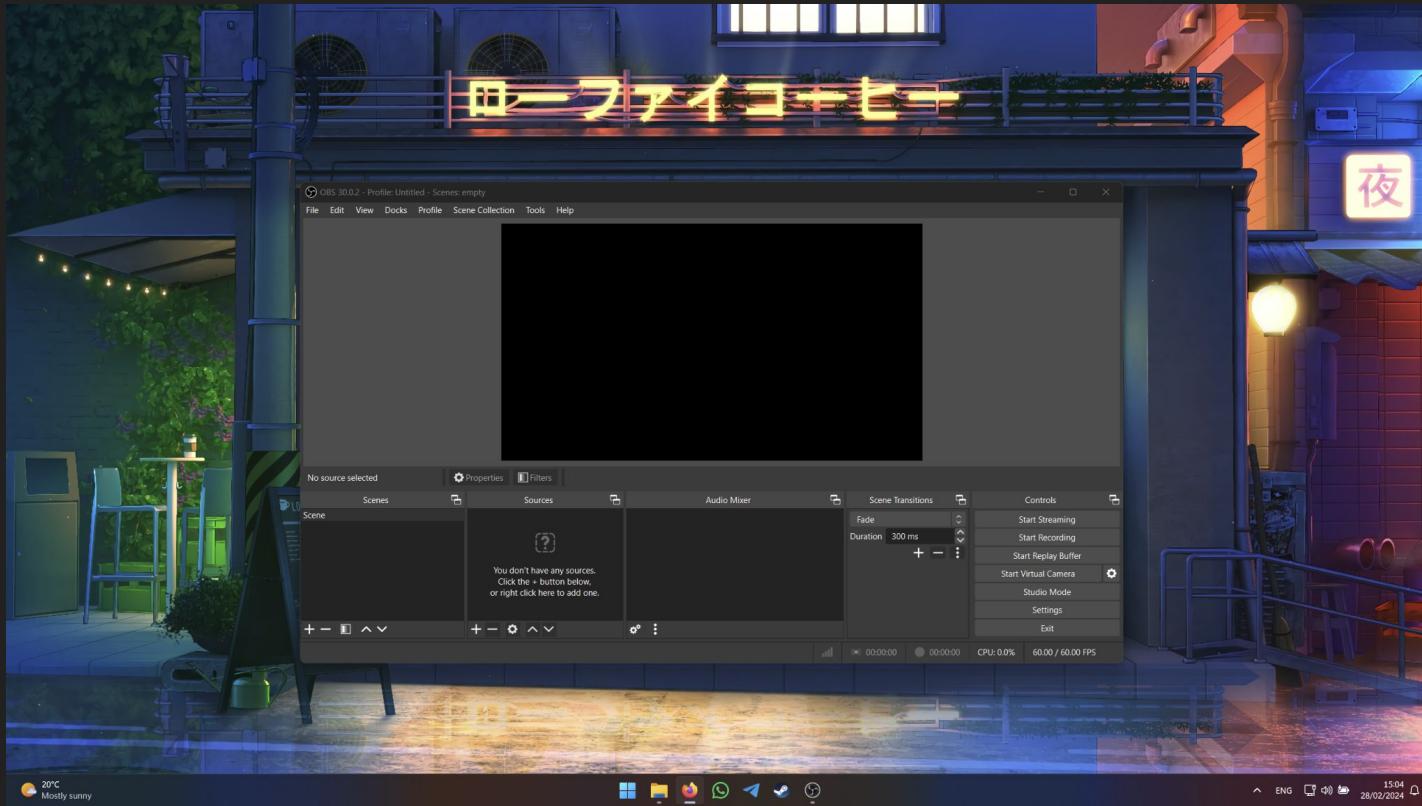
# Software installation: Windows



# Software installation: Windows



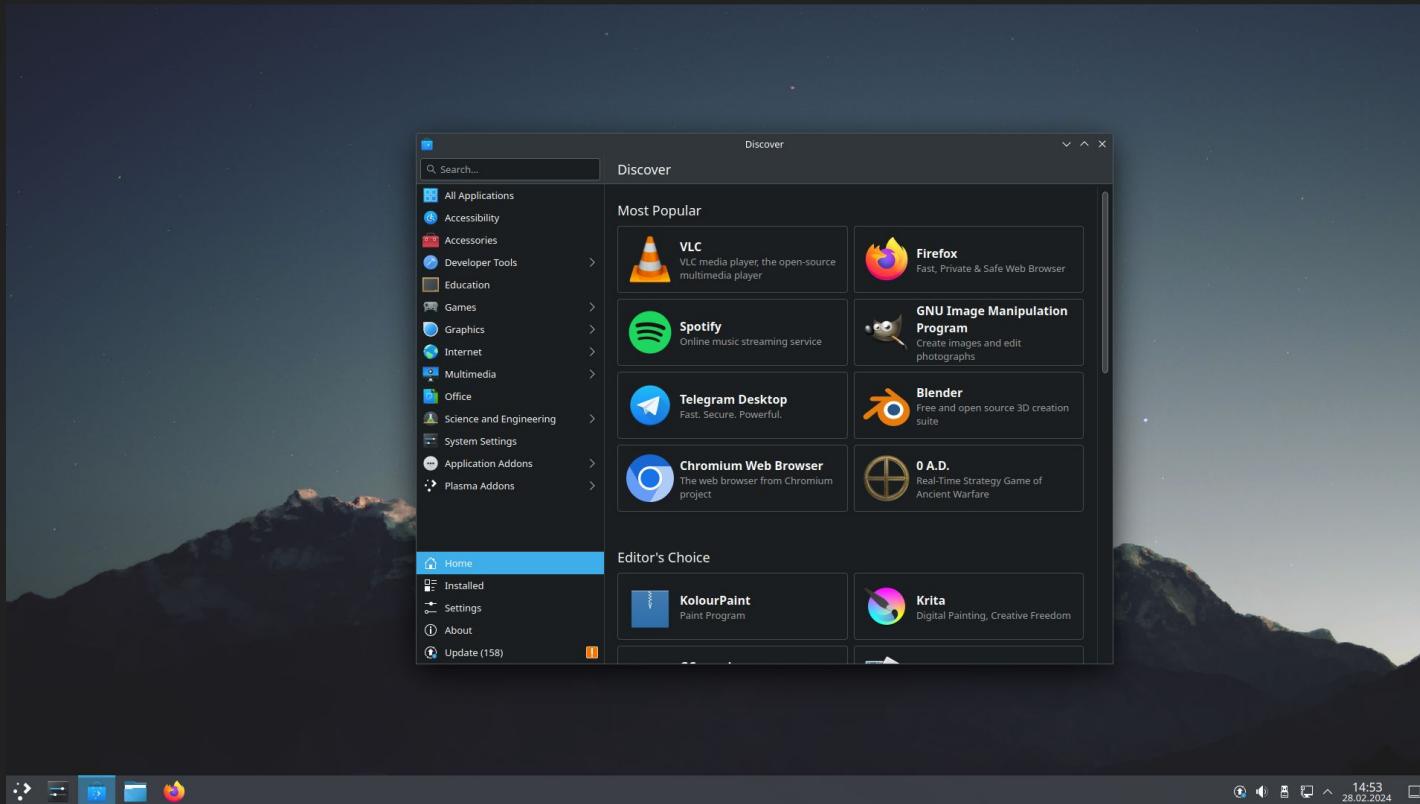
# Software installation: Windows



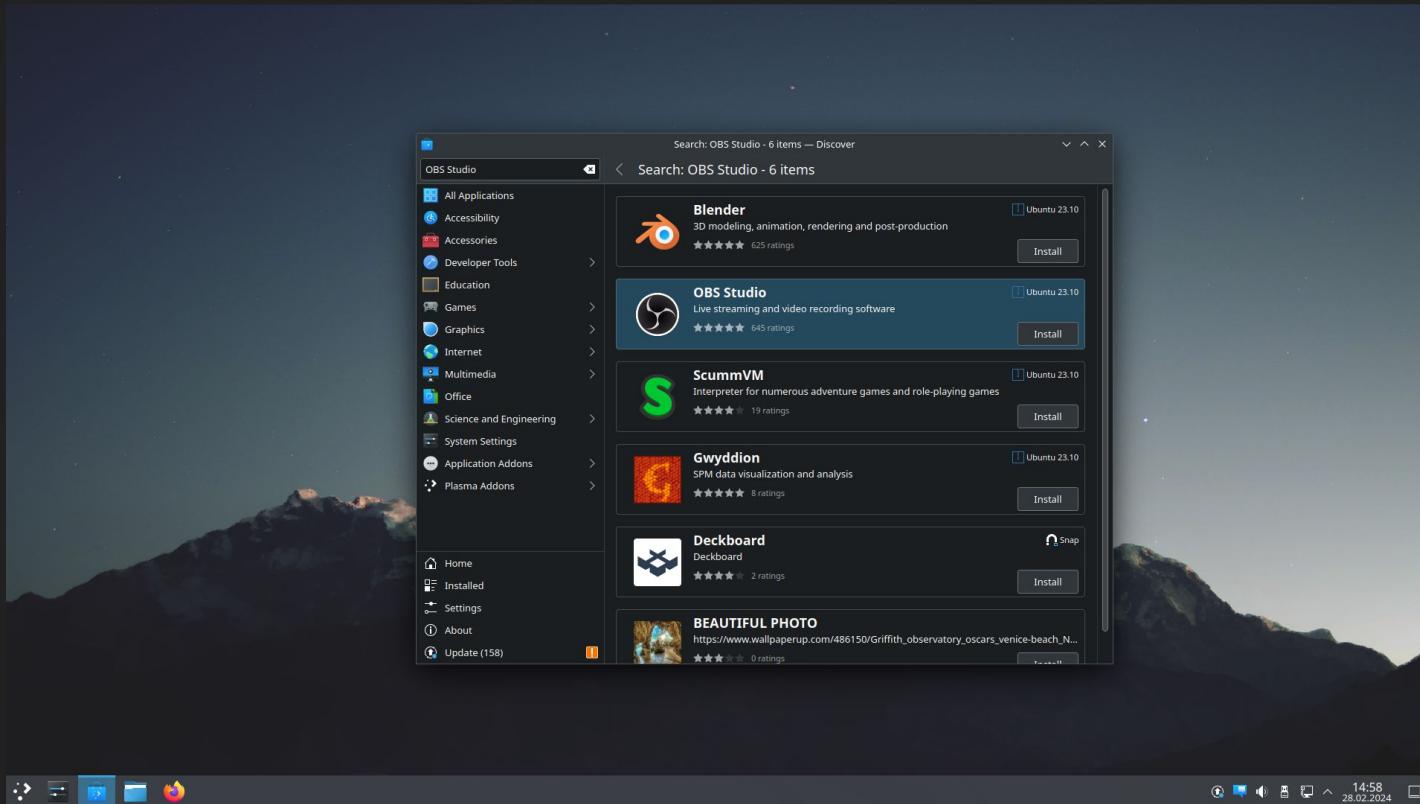
# Software installation: Windows

- 10 steps
- 3 critical security issues

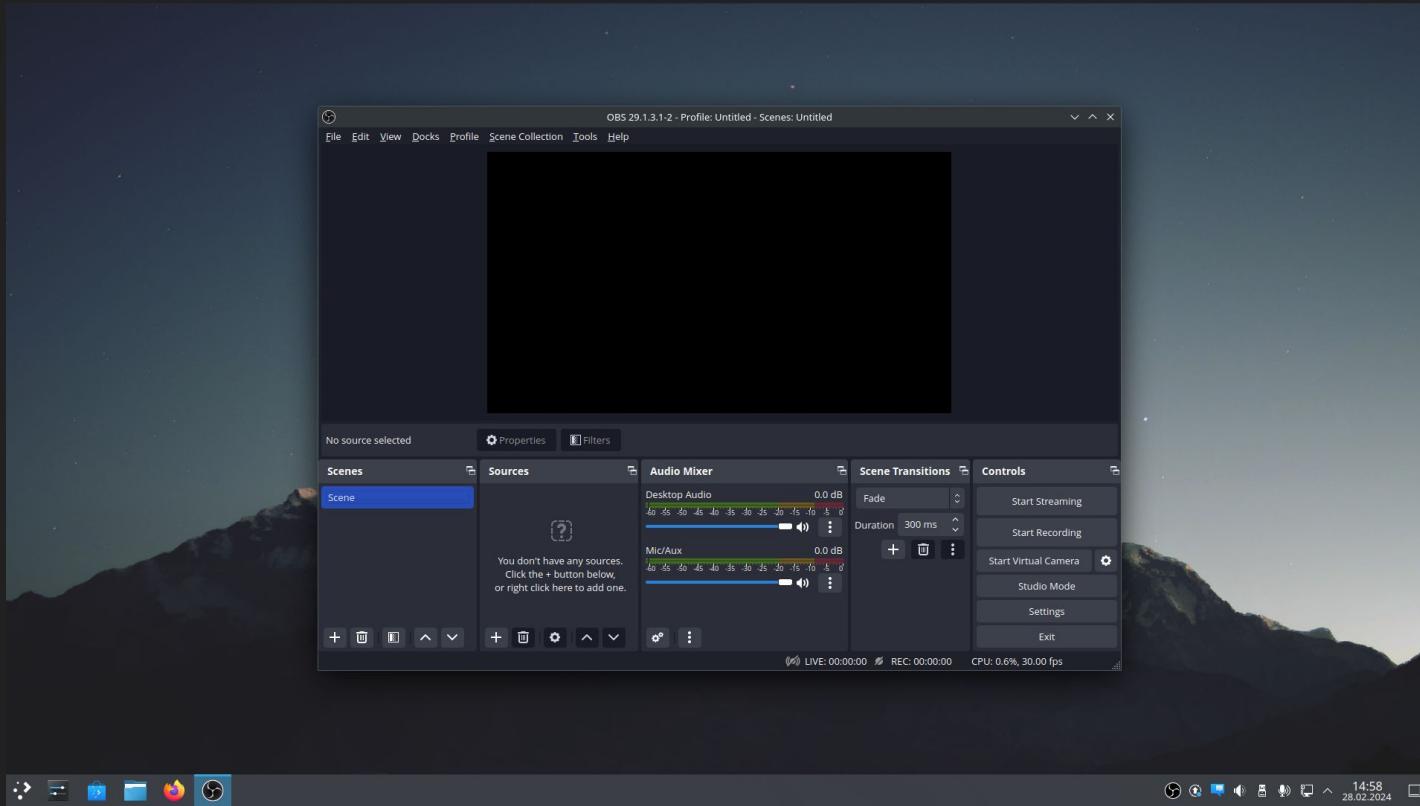
# Software installation: Linux



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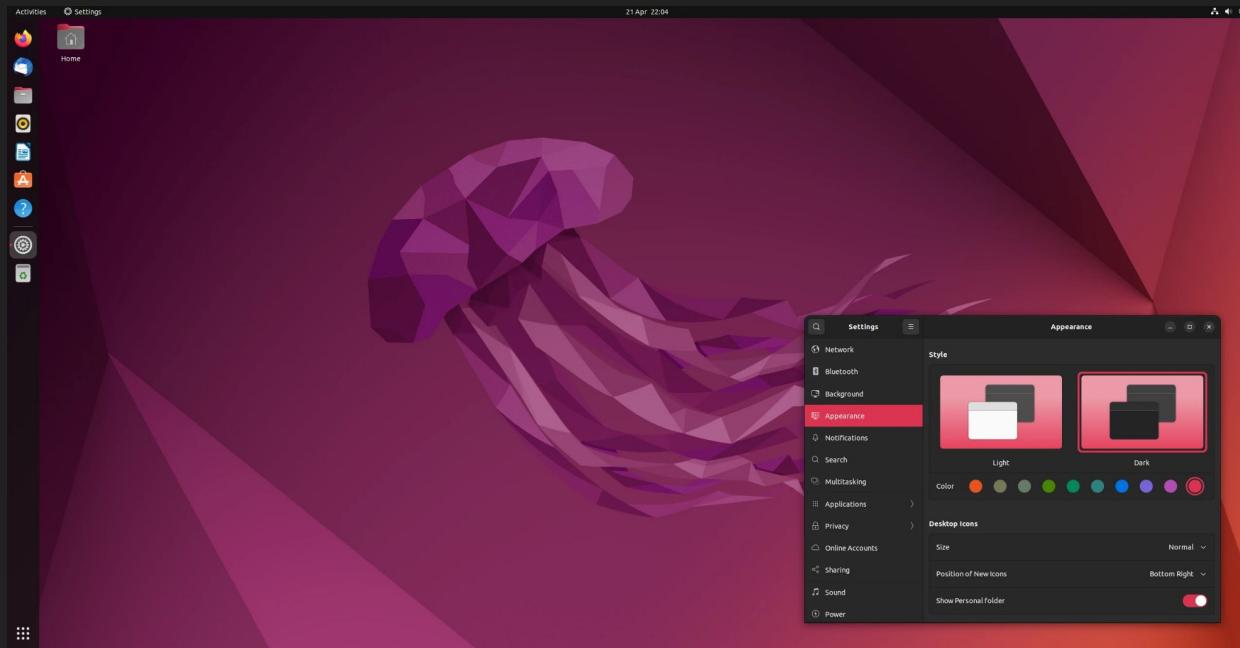
- 3 steps
- 0 critical security issues

# Software installation: Linux

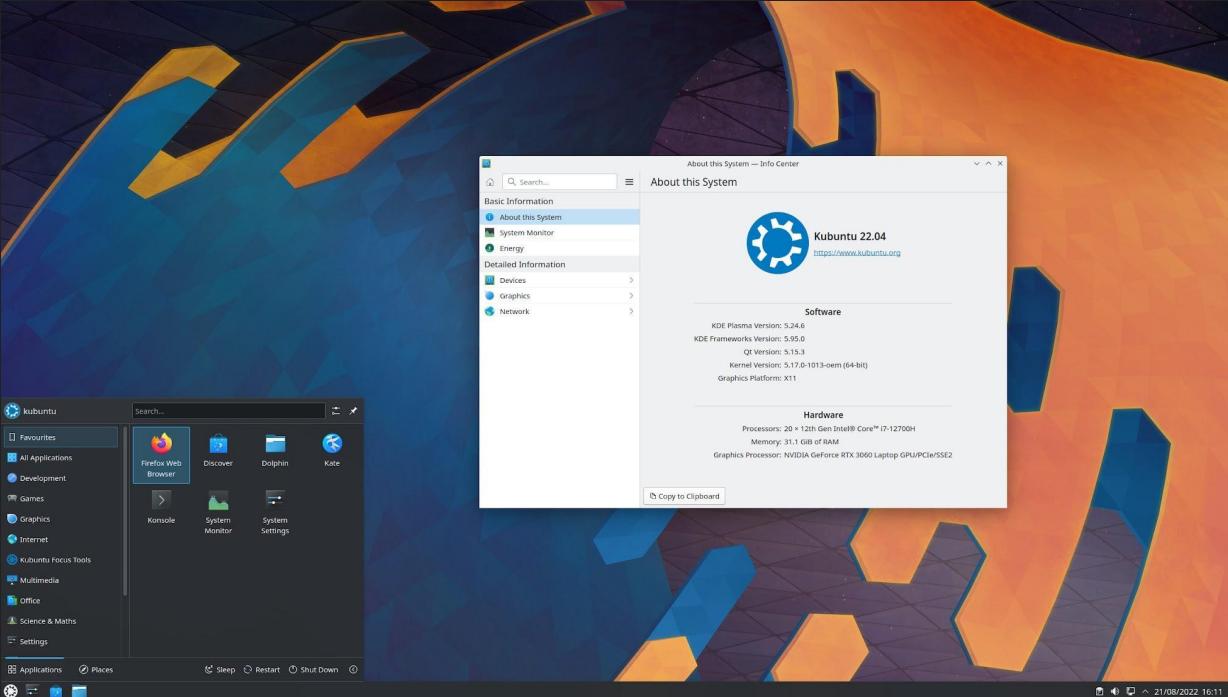
Alternatively...

```
sudo apt install obs-studio
```

# Desktop Environments



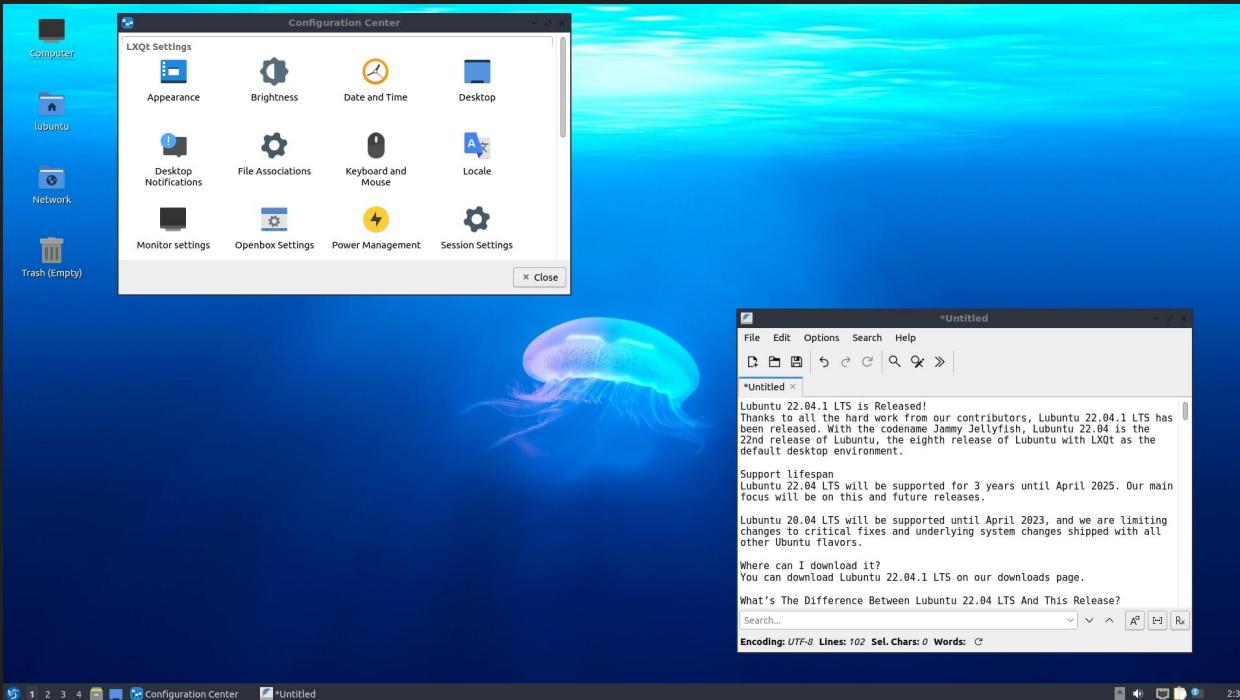
GNOME



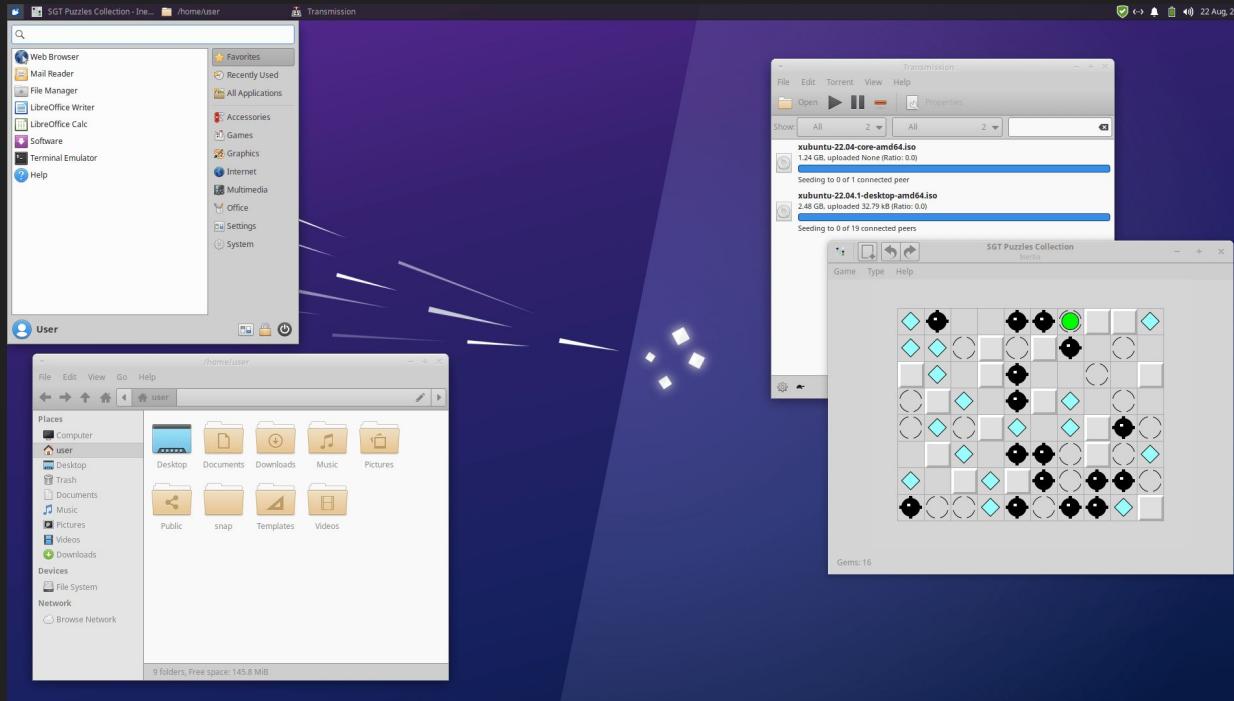
# KDE Plasma



Kylin (UKUI)



LxQT



Xfce

...don't really matter.

# Linux Software Repositories

## Distro repositories:

- Ubuntu: apt
- Fedora: dnf
- Arch: pacman
- OpenSUSE: zypper

## General repositories:

- Snapcraft: snap
- Flathub: flatpak

Portable files: AppImage

Repository	Package format	Package manager
Ubuntu	.deb	apt

Let's try installing Ubuntu!